Application Serial No.: 10/003,529 Law Office 1774

In the Claims

(Withdrawn) A reinforcement rod for optical cables comprising:

a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material; and $_7$

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer including a thermoplastic hot melt polybutylene terephthalate copolymer resin to impart specific bonding characteristics to said rod.

- (Withdrawn) The reinforcement rod of claim 1, wherein said elongated fiber members comprises an E glass fiber member.
- (Withdrawn) The reinforcement rod of claim 1, wherein said elongated fiber members comprises an S glass fiber member.
- (Withdrawn) The reinforcement rod of claim 1, wherein said elongated fiber members are selected from the group consisting of E glass fiber members, an S glass fiber members, and combinations thereof.
- 5. (Withdrawn) The reinforcement rod of claim 1, wherein said elongated fiber members are selected from the group consisting of E glass fiber members, S glass fiber members, high strength synthetic strands of poly(p-phenylene-2,6-benzobisoxazole) fiber members, and combinations thereof.
- 6. (Withdrawn) The reinforcement rod of claim 1, wherein said UV cured vinyl ester resin material is selected from the group consisting of novolac vinyl ester and 1, 6 hexane diol diacrylate copolymer material (VINCH 500), and novolac vinyl ester and dipropylene glycol diacrylate copolymer material (17-41B).

7-22. Canceled.

- 23. (Withdrawn) The reinforcement rod of claim 1, wherein said plurality of fibers comprises:
 - a plurality of E glass roving fibers; and
 - a plurality of S glass roving fibers.
- 24. (Withdrawn) The reinforcement rod of claim 23, wherein said plurality of fibers further comprises a plurality of high strength synthetic strand members.
- 25. (Withdrawn) The reinforcement rod of claim 23, wherein said plurality of fibers further comprises a plurality of high strength aramid strands.
- 26. (Withdrawn) The reinforcement rod of claim 24, wherein said plurality of fibers further comprises a plurality of polyphenylene terephthalate strand members.
- 27. (Withdrawn) The reinforcement rod of claim 1, wherein said plurality of fibers comprises:
 - a plurality of E glass roving fibers;
 - a plurality of S glass roving fibers; and
 - a plurality of high strength aramid strands.
- 28. (Withdrawn) The reinforcement rod of claim 1, wherein said plurality of fibers comprises:
 - a plurality of E glass roving fibers;
 - a plurality of S glass roving fibers; and
 - a plurality of high strength polyphenylene terephthalate strands.
- 29-30. Canceled.

31. (Withdrawn) The reinforcement rod of claim 1, wherein said outer topcoat layer includes a polybutylene terephthalate and polyether glycol copolymer topcoat layer.

Canceled.

- 33. (Withdrawn) The reinforcement rod of claim 1, further comprising an upjacket substantially surrounding said compact fiber reinforced rod.
- (Currently amended) A reinforcement rod for optical cables comprising:
 a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer including a thermoplastic hot melt ethylene acrylic acid eopolymer polymer resin to impart specific bonding characteristics to said rod.

35. (Withdrawn) A reinforcement rod for optical cables comprising:

a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer including a thermoplastic hot melt polybutylene terephthalate and polyether glycol copolymer resin to impart specific bonding characteristics to said rod.

(Withdrawn) A reinforcement rod for optical cables comprising: a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer consisting essentially of a thermoplastic hot melt polybutylene terephthalate copolymer resin to impart specific bonding characteristics to said rod.

(Currently amended) A reinforcement rod for optical cables comprising: a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer consisting essentially of a thermoplastic hot melt ethylene acrylic acid eepelymer polymer resin to impart specific bonding characteristics to said rod. Application Serial No.: 10/003,529

(Withdrawn) A reinforcement rod for optical cables comprising:
 a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer consisting essentially of a thermoplastic hot melt polybutylene terephthalate and polyether glycol copolymer resin to impart specific bonding characteristics to said rod.

- (Withdrawn) The reinforcement rod of Claim 1 wherein said compact fiber reinforced rod includes an upjacket substantially surrounding said outer topcoat laver.
- (Previously presented) The reinforcement rod of Claim 34 wherein said compact fiber reinforced rod includes an upjacket substantially surrounding said outer topcoat layer.
- 41. (Withdrawn) The reinforcement rod of Claim 35 wherein said compact fiber reinforced rod includes an upiacket substantially surrounding said outer toncoat laver.
- (Withdrawn) The reinforcement rod of Claim 36 wherein said compact fiber reinforced rod includes an upjacket substantially surrounding said outer topcoat layer.
- (Previously presented) The reinforcement rod of Claim 37 wherein said compact fiber reinforced rod includes an upjacket substantially surrounding said outer topcoat layer.
- 44. (Withdrawn) The reinforcement rod of Claim 38 wherein said compact fiber reinforced rod includes an upjacket substantially surrounding said outer topcoat layer.

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45. (New) A reinforcement rod for optical cables comprising:

a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a resin matrix of a thermoplastic resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer including a thermoplastic hot melt ethylene acrylic acid polymer resin to impart specific bonding characteristics to said rod.

46. (New) A reinforcement rod for optical cables comprising:

a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a resin matrix of a thermally curable thermosetting resin material; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer including a thermoplastic hot melt ethylene acrylic acid polymer resin to impart specific bonding characteristics to said rod.

47. (New) A reinforcement rod for optical cables comprising:

a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a resin matrix of a UV cured thermally curable thermosetting resin material, said UV cured vinyl ester resin material having a melting point within a range of from about 65°C to about 100°C; and

an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer including a thermoplastic hot melt ethylene acrylic acid polymer resin to impart specific bonding characteristics to said rod.

- 48. (New) The reinforcement rod of claim 34 wherein said elongated fiber members comprises an E glass fiber member.
- (New) The reinforcement rod of claim 34 wherein said elongated fiber members comprises an S glass fiber member.

- 50. (New) The reinforcement rod of claim 34 wherein said elongated fiber members are selected from the group consisting of E glass fiber members, S glass fiber members, and combinations thereof.
- 51. (New) The reinforcement rod of claim 34 wherein said elongated fiber members are selected from the group consisting of E glass fiber members, S glass fiber members, high strength synthetic strands of poly(p-phenylene-2,6-benzobisoxazole) fiber members, and combinations thereof.
- 52. (New) The reinforcement rod of claim 34 wherein said UV cured vinyl ester resin material is selected from the group consisting of novolac vinyl ester and 1, 6 hexane diol diacrylate copolymer material (VINCH 500), and novolac vinyl ester and dipropylene glycol diacrylate copolymer material (17-41B).
- 53. (New) The reinforcement rod of claim 34 wherein said plurality of fibers comprises:
 - a plurality of E glass roving fibers; and
 - a plurality of S glass roving fibers.
- 54. (New) The reinforcement rod of claim 53 wherein said plurality of fibers further comprises a plurality of high strength synthetic strand members.
- 55. (New) The reinforcement rod of claim 53 wherein said plurality of fibers further comprises a plurality of high strength aramid strands.
- 56. (New) The reinforcement rod of claim 54 wherein said plurality of fibers further comprises a plurality of polyphenylene terephthalate strand members.

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- 57. (New) The reinforcement rod of claim 34 wherein said plurality of fibers comprises:
 - a plurality of E glass roving fibers;
 - a plurality of S glass roving fibers; and
 - a plurality of high strength aramid strands.
- 59. (New) The reinforcement rod of claim 34 wherein said plurality of fibers comprises:
 - a plurality of E glass roving fibers;
 - a plurality of S glass roving fibers; and
 - a plurality of high strength polyphenylene terephthalate strands.
- 60. (New) The reinforcement rod of claim 34 wherein said plurality of fibers comprises a plurality of fibers selected from the group consisting of E glass fibers, S glass fibers, aramid fibers, polyphenylene terephthalate strands, and combinations thereof.
- 61. (New) The reinforcement rod of claim 34 includes an upjacket substantially surrounding said reinforcement rod.
- 62 (New) The reinforcement rod of claim 34 wherein said UV cured vinyl ester resin material has a melting point within a range of from about 65° C to about 100° C.
- 63. (New) The reinforcement rod of claim 34 wherein said ethylene acrylic acid polymer resin includes has a melting point within a temperature range of from about 150°C to about 230°C.
- 64. (New) The reinforcement rod of claim 46 wherein said ethylene acrylic acid polymer resin includes has a melting point within a temperature range of from about 150°C to about 230°C.